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Question1. Perform CRUD operations on Student Table as outlined in the reference

(https://medium.com/analytics-vidhya/programming-with-databases-in-python-using-sqlite4cecbef51ab9).

In [26]:
```
import sqlite3
database= 'tds.sqlite'
conn= sqlite3.connect(database)
cur= conn.cursor()
```

In [27]:
```
nt="create table if not exists stud(\
    name varchar, rno integer, m1 integer, m2 integer,\
    m3 integer, tot integer, avg float)"
cur.execute(nt)
conn.commit()
```

In [28]:
```
rt="select * from stud"
cur.execute(rt)
st=[tuple[0] for tuple in cur.description]
st
```

Out[28]:
```
['name', 'rno', 'm1', 'm2', 'm3', 'tot', 'avg']
```

In [29]:
```
cur = conn.cursor()
sql = "INSERT INTO stud values ('joshua',1001,99,98,97,0,0)"
cur.execute(sql)
conn.commit()
print(cur.rowcount, "was inserted.")
```

```
1 was inserted.
```

In [30]:
```
sql1 = "INSERT INTO stud values ('rolex',1002,99,100,97,0,0)"
cur.execute(sql1)
sql2 = "INSERT INTO stud values ('hari',1003,97,78,87,0,0)"
cur.execute(sql2)
sql3 = "INSERT INTO stud values ('dinesh',1004,95,93,95,0,0)"
cur.execute(sql3)
sql4 = "INSERT INTO stud values ('umesh',1001,93,92,91,0,0)"
cur.execute(sql4)
conn.commit()
```

In [31]:
```
cur = conn.cursor()
cur.execute("select * from stud")
res=cur.fetchall()
for i in res:
    print(i)
```

```
('joshua', 1001, 99, 98, 97, 0, 0.0)
('rolex', 1002, 99, 100, 97, 0, 0.0)
('hari', 1003, 97, 78, 87, 0, 0.0)
('dinesh', 1004, 95, 93, 95, 0, 0.0)
('umesh', 1001, 93, 92, 91, 0, 0.0)
```

In [32]:
```
cur = conn.cursor()
tot="update stud set tot=m1+m2+m3 "
cur.execute(tot)
conn.commit()
```

In [33]:
```
cur = conn.cursor()
avg="update stud set avg=tot/3 "
cur.execute(avg)
conn.commit()
```

In [34]:
```
cur = conn.cursor()
cur.execute("select * from stud")
res=cur.fetchall()
for i in res:
    print(i)
```

```
('joshua', 1001, 99, 98, 97, 294, 98.0)
('rolex', 1002, 99, 100, 97, 296, 98.0)
('hari', 1003, 97, 78, 87, 262, 87.0)
('dinesh', 1004, 95, 93, 95, 283, 94.0)
('umesh', 1001, 93, 92, 91, 276, 92.0)
```

In [1]:
```
pip install cx_Oracle
```

```
Requirement already satisfied: cx_Oracle in c:\users\umesh\anaconda3\lib\site-package
s (8.3.0)
Note: you may need to restart the kernel to use updated packages.
```

Question2. Open the table MyRestaurants.db that you have created for NoSQL course

In [3]:
```
import sqlite3
database= 'tds.sqlite'
conn= sqlite3.connect(database)
cur= conn.cursor()
```

In [4]:
```
nt="create table if not exists myrest(\
    rname varchar, ftype varchar, dist integer, visit date,\
    ilike integer)"
cur.execute(nt)
conn.commit()
```

In [5]:
```
rt="select * from myrest"
cur.execute(rt)
st=[tuple[0] for tuple in cur.description]
st
```

Out[5]:
```
['rname', 'ftype', 'dist', 'visit', 'ilike']
```

In [7]:
```
cur = conn.cursor()
sql = "INSERT INTO myrest values ('apple_leaf','NV',15,'01-jan-20',1)"
cur.execute(sql)
```

```
conn.commit()
print(cur.rowcount, "was inserted.")
```

```
1 was inserted.
```

In [8]:
```
cur = conn.cursor()
sql = "INSERT INTO myrest values ('sowmys','V',18,'20-mar20',1)"
cur.execute(sql)
conn.commit()
print(cur.rowcount, "was inserted.")
```

```
1 was inserted.
```

In [10]:
```
cur = conn.cursor()
sql = "INSERT INTO myrest values ('thinnapa','NV',25,'20-dec-19',0)"
cur.execute(sql)
conn.commit()
print(cur.rowcount, "was inserted.")
```

```
1 was inserted.
```

In [11]:
```
cur = conn.cursor()
sql = "INSERT INTO myrest values ('sri_bhavan','V',18,'20-dec-19',0)"
cur.execute(sql)
conn.commit()
print(cur.rowcount, "was inserted.")
```

```
1 was inserted.
```

In [12]:
```
cur = conn.cursor()
sql = "INSERT INTO myrest values ('chinaworld','chinese',14,'05-mar-20',1)"
cur.execute(sql)
conn.commit()
print(cur.rowcount, "was inserted.")
```

```
1 was inserted.
```

In [13]:
```
cur = conn.cursor()
sql = "INSERT INTO myrest values ('little_china','chinese',30,'10-mar-20',0)"
cur.execute(sql)
conn.commit()
print(cur.rowcount, "was inserted.")
```

```
1 was inserted.
```

Question3. Write a SQL query that returns all restaurants in your table MyRestaurants.db.

In [14]:
```
cur = conn.cursor()
cur.execute("select * from myrest")
res=cur.fetchall()
for i in res:
    print(i)
```

```
('apple_leaf', 'NV', 15, '01-jan-20', 1)
('sowmys', 'V', 18, '20-mar20', 1)
('thinnapa', 'NV', 25, '20-dec-19', 0)
('sri_bhavan', 'V', 18, '20-dec-19', 0)
('chinaworld', 'chinese', 14, '05-mar-20', 1)
('little_china', 'chinese', 30, '10-mar-20', 0)
```

Question4. Write a SQL query that returns the names of restaurants in descending order that makes Chinese foods.

In [25]:
```
cur = conn.cursor()
res="select rname from myrest where ftype='chinese' order by rname desc"
cur.execute(res)
res=cur.fetchall()
for i in res:
    print(i)
```

```
('little_china',)
('chinaworld',)
```

In [ ]:
```

```